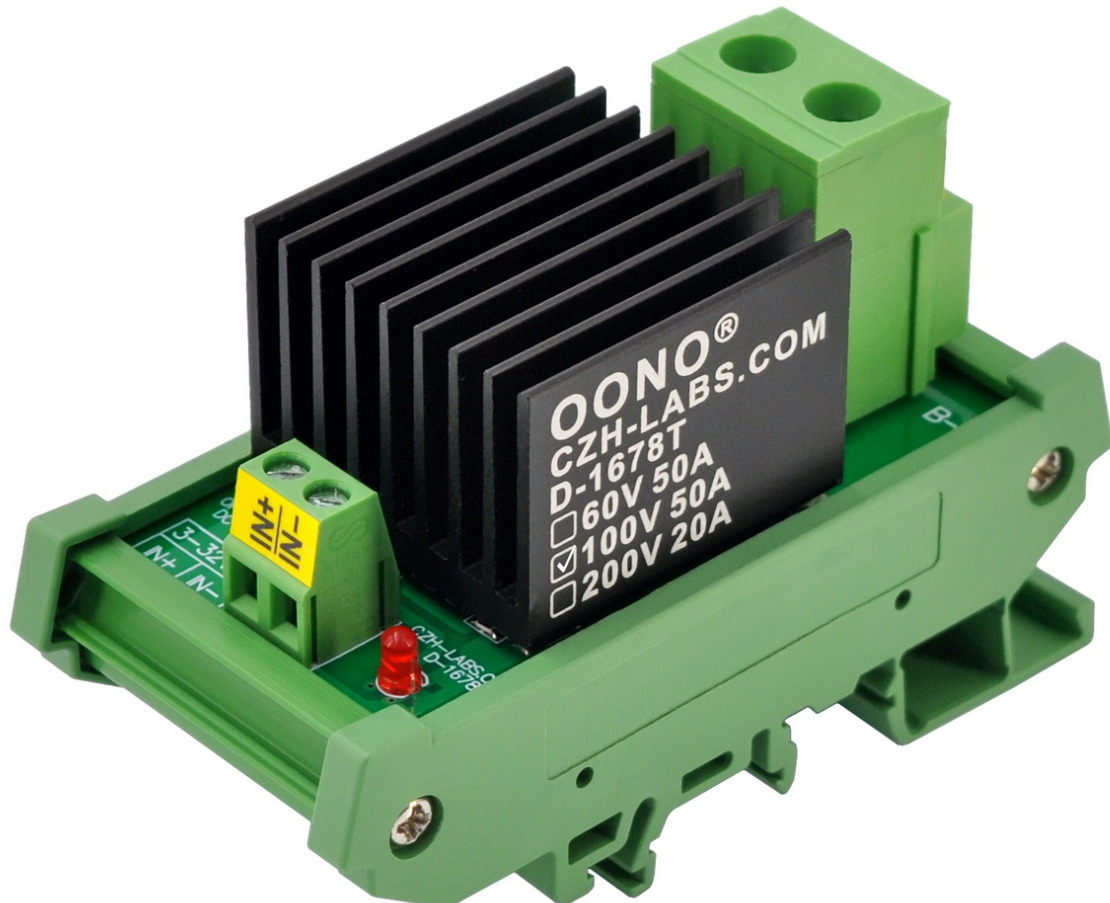


OONO®
CZH-LABS.com

**DIN Rail Mount DC-DC Isolated SSR
Solid State Relay Module**

Model: D-1678T Series



Features:

- This is a simple and practical solid state relay module, which is very convenient to use, for Arduino, Raspberry Pi, ESP32, PLC or other projects. The GPIO of these controllers are directly connected to this relay input to control the 5 to 30V high current DC power.
- Input signal turn-on voltage DC 3 to 32V, turn-off voltage DC 0 to 0.8V. LED indication for relay turn-on.
- Rated voltage: 60V, 100V and 200V optional. Maximum on-state average current 20 Amp and 50 Amp optional.
- Photocoupler isolation between input control signal and controlled power, isolation voltage 3750Vrms (min).
- High quality fireproof nylon material DIN rail mount carrier, can support width 35mm 32mm 15mm rail.
- UL CE certified nylon material mount carrier. FR-4 fiberglass material PCB, UL 94-V0 certified PCB. UL CE CQC certified terminal blocks.

Characteristic Parameters:

Operating temperature: -20 to 75°C [*note1](#)

Input Signal Control Terminal:

Action Voltage: 3 to 32 VDC.

Current: 11mA at 3VDC, 12mA at 5VDC, 14mA at 12VDC, 16mA at 24VDC, 18mA at 32VDC.

Turn off voltage: 0 to 0.8 VDC.

In-Out isolation voltage: 3750Vrms (min).

Output Terminal:

Rated voltage: DC 60V, 100V and 200V optional.

Maximum on-state continuous current 20 Amp and 50 Amp optional. [*note1](#)

Load type: General purpose.

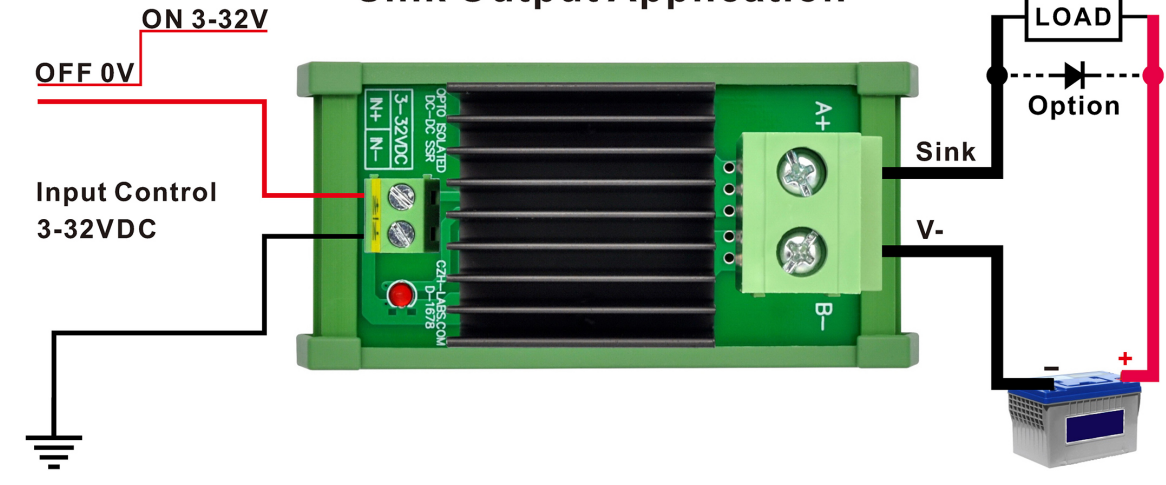
Other detailed parameters are shown in the table below:

SKU	D-1678T/60V50A	D-1678T/100V50A	D-1678T/200V20A
Rated voltage	DC 60V	DC 100V	DC 200V
Max. continuous current *note1	50 Amp	50 Amp	20 Amp
Max. current (< 2 seconds).	100 Amp	100 Amp	40 Amp
Non repetitive surge peak current (<400uS)	800 Amp	800 Amp	320 Amp
On-state resistance	1 milliohm	1.3 milliohms	12 milliohms
Turn-on delay time	< 3mS	< 5mS	< 2mS
Turn-off delay time	< 3mS	< 3mS	< 2mS

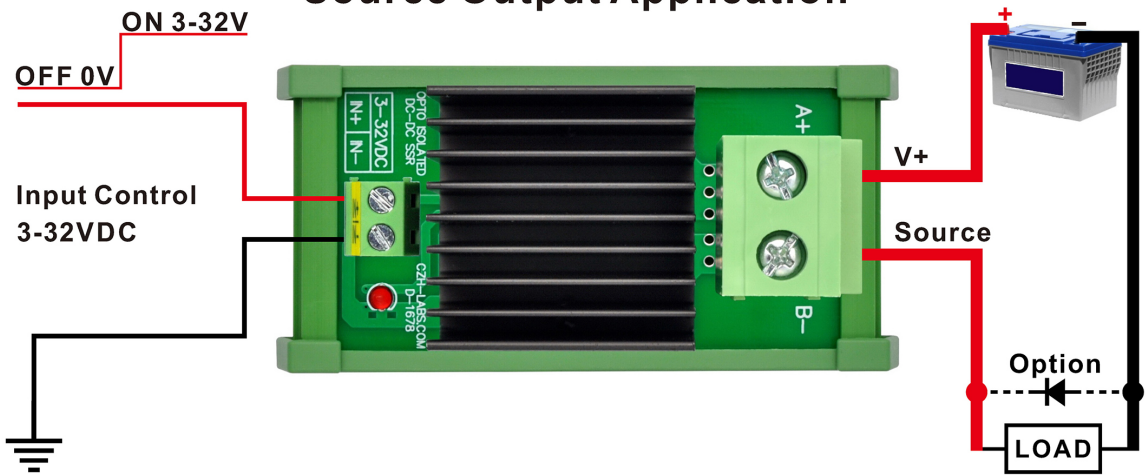
[*Note1](#): Maximum continuous current, the operating environment must meet 0 to 25°C and ensure good ventilation. Otherwise, please do not exceed 80% of the maximum continuous current value.

Typical Connection Diagram:

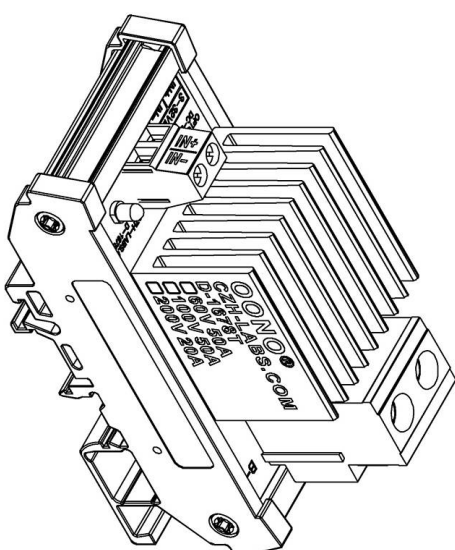
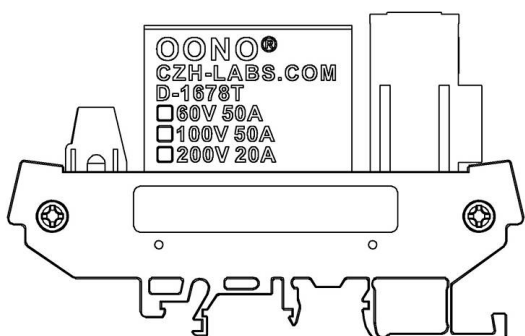
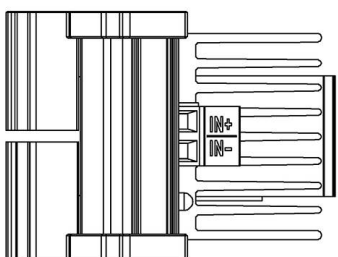
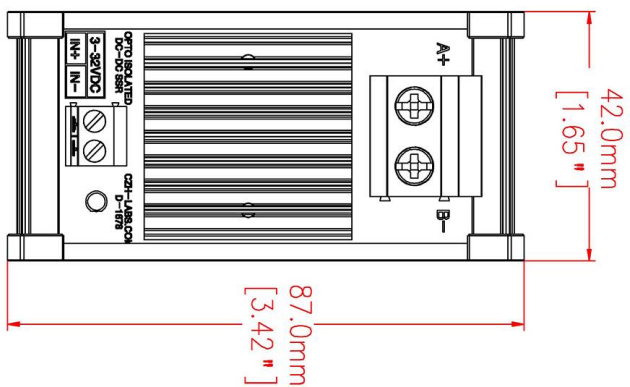
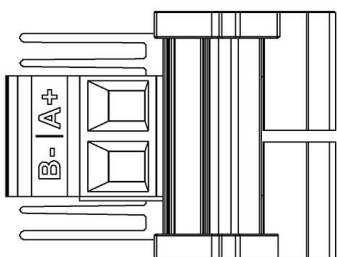
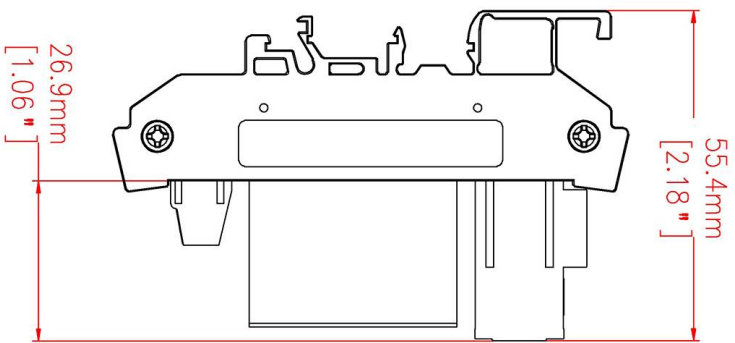
Sink Output Application



Source Output Application



Note: when this product is used with an inductive load, it is recommended to connect a freewheeling diode in parallel with the load.



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MODEL NO:	D-1678T
SKU:	MD-D1678T-1
PROJECTION:	